

Energy Smart Schools – Video Script

Rebuild Hi Version

Audio

SOT – Hawaiian Electric Company, U.S. Department of Energy, and the Department of Business & Economic Development and Tourism have a very strong commitment to education programs for Hawaii's youth. In the Rebuild Hawaii Energy Smart Schools program, students at McKinley and Radford High Schools on Oahu are learning first hand the importance of energy conservation and how to cut energy costs by replacing old lighting equipment with newer, energy efficient lighting.

During the weekly class students first learned about energy use in their homes, they expanded to study energy consumption within the school, and eventually they headed out in to the community to conduct lighting/energy audits in small businesses.

As a foundation to their future workshops, students built motors to see how coils and magnets help create electricity.

As special guests speakers, Hawaiian Electric Company engineers would visit the Energy Smart Schools classes. HECO presented a fuel cell demonstration project where the students had a great opportunity to see an alternative energy source. The HECO engineers gave talks about generation, lighting and no-cost, low cost energy conservation measures. They also provided energy audit training to prepare students to conduct lighting audits.

HECO marketing professionals taught the students about sales and marketing and how to communicate with small businesses. After they conducted lighting audits on the businesses they generated calculation reports showing how businesses can save energy and money by retrofitting their lights.

Some other projects the students worked on included reading meters... not just their home electric meters, but watt meters, voltage meters, lighting meters and lighting loggers. They learned how much energy different appliances use and how to calculate the life cycle costs of those appliances.

The school lighting audit segment was a big part of the Energy Smart Schools program. Students started with their own classrooms, and then moved to the library (which is the perfect challenge for the auditing teams). Eventually they audited the entire school and logged the data on Excel spreadsheets.

Narration – “The students practiced what they learned about public speaking and conveyed the schools’ energy savings possibilities in a PowerPoint presentation program to their principals and PTSA.

Pick up at ... In the Final segment

ENTS CONDUCTING
BY AUDIT AT PRECISION

NARRATION - “In the final segment of the yearlong class, the students conduct energy audits at small businesses in their communities. They calculate the amount of energy savings a business owner can receive by converting to energy efficient lighting. Students can also calculate the rebate money HECO pays its customers for taking steps to save energy. They also show how long it will take for the costs of the renovation to pay for itself in lower electric bills.

Students gain self-confidence and real business experiences by working with local businesses, and showing them how HECO’s energy efficiency programs can help to lower their electricity costs. And as businesses reduce their energy consumption, they help reduce the demand for electricity and that benefits everyone.”

ON CAMERA

SOT – “Energy Smart Schools is funded by Hawaiian Electric Company and Rebuild America, a U. S. Department of Energy voluntary community effort that promotes energy-saving programs. Energy Smart

Schools is administered by the Department of Business,
Economic Development and Tourism with oversight
from the U.S. Department of Energy.”

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Energy Smart Schools – video script

HECO Electric Kitchen
Infomercial

VIDEO

AUDIO

SAM NICHOLS ON CAMERA

SOT – “Hawaiian Electric Company, Maui Electric and Hawaii Electric Light Company have a very strong commitment to education programs for Hawaii’s youth.

SHOTS OF STUDENTS IN CLASSROOM

In our Energy Smart Schools program, students at McKinley and Radford High Schools are learning firsthand the importance of energy conservation and how to cut energy costs by replacing less efficient lighting equipment with newer high efficiency lighting.”

JENNIFER TOSAKI, SCHOOL COORDINATOR FOR ENERGY SMART SCHOOLS PROGRAM.

SOT – “They first learn about energy use in their homes, they then move in and start to practice audits within the school, and eventually they’ll head out into the community and do lighting audits in small businesses.

SHOTS OF STUDENTS WORKING ON ELCTRIC MOTORS

Some of the projects they’ve been working on so far is putting together motors, to see how coils and magnets help create electricity or do create electricity. We’ve had Hawaiian Electric Company engineers come out to the schools and talk to the students. We’ve had a fuel cell

SAM TALKING TO CLASS AT
RADFORD SHAKING HANDS
WITH STUDENT

demonstration project come in and the students had a great opportunity to see an alternative energy source.

We've had engineers come in and talk about lighting they provided a little bit of training for the students to prepare them for their energy audits. We're going to have someone come in and talk about marketing skills and how to communicate with small businesses, building a rapport, and then they're going to generate reports after they do lighting audits on the businesses that will the show businesses how they can save energy and money.

SHOTS OF KIDS WITH LIGHT
METERS

Some of the other projects they've worked on... they've learned how to read meters, so they've done a lot of meter reading a lot of work sheets that taught them about different appliances, life cycle costs of appliances, and now currently they're doing lighting audits in their classrooms and moving into the library and doing a lighting audit in the library. Eventually once they build their skills, they'll do an audit on the entire school."

(SHOTS FROM THE ENERGY AUDITS)

NARRATION – "The students practice what they've learned about public speaking and how to explain the benefits of converting to energy efficient lighting by

presenting their findings to their school's PTSA."

(NSOT OF PRESENTATION)

**STUDENTS CONDUCTING
ENERGY AUDIT AT PRECISION
RADIO**

NARRATION - "In the final segment of the yearlong class, the students conduct energy audits at small businesses in their communities. They calculate the amount of energy savings a business owner can receive by converting to energy efficient lighting. Students can also calculate the rebate money HECO pays its customers for taking steps to save energy. They also show how long it will take for the costs of the renovation to pay for itself in lower electric bills.

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